



Docket No.: M4065.0481/P481
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Glen Hush

Confirmation No.: 2292

Application No.: 10/022,722

Group Art Unit: 2818

Filed: December 20, 2001

Examiner: H. Hoang

For: A PROGRAMMABLE CONDUCTOR
RANDOM ACCESS MEMORY AND A
METHOD FOR WRITING THERETO

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents
Washington, DC 20231

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This Information Disclosure Statement is filed more than three months after the U.S. filing date, OR more than three months after the date of entry of the national stage of a PCT application, AND after the mailing date of the first Office Action on the merits, whichever occurs first, but before the mailing date of a Final Rejection or Notice of Allowance.

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A copy of each reference on PTO/SB/08 is attached.

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Application No.: 10/022,722

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The Commissioner is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 04-1073, under Order No. M4065.0481/P481. A duplicate copy of this paper is enclosed.

Dated: May 23, 2003

Respectfully submitted

By 

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Dated: April ²²17, 2003

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PTO/SB/08A (10-01)

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Substitute for form 1449A/PTO			C mplete if Kn wn		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	10/022,722	
			Filing Date	December 20, 2001	
			First Named Inventor	Glen Hush	
			Art Unit	2818	
			Examiner Name	H. Hoang	
Sheet	1	of	4	Attorney Docket Number	M4065.0481/P481

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AA	6,469,364	10/2002	Kozicki	
	AB	2002/0168820 App.	11/2002	Kozicki	
	AC	2002/0072188 App	6/2002	Gilton	
	AD	2002/0123169 App	9/2002	Moore et al.	
	AE	2002/0123248 App.	9/2002	Moore et al.	
	AF	3,622,319	11/1971	Sharp	
	AG	3,743,847	7/1973	Boland	
	AH	4,269,935	5/1981	Masters et al.	
	AI	4,312,938	1/1982	Drexler, et al.	
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	AM	4,419,421	12/1983	Wichelhaus, et al.	
	AN	4,795,657	1/1989	Formigoni et al.	
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	AU	5,350,484	9/1994	Gardner et al.	
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	AW	5,512,328	4/1996	Yoshimura et al.	
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	AA1	5,841,150	11/1998	Gonzalez et al.	
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				Application Number	10/022,722
				Filing Date	December 20, 2001
				First Named Inventor	Glen Hush
				Art Unit	2818
				Examiner Name	H. Hoang
Sheet	2	of	4	Attorney Docket Number	M4065.0481/P481

	AU1	2002/0190350 APP	12/19/2002	Kozicki	
	AV1	2003/0027416 APP	2/6/2003	Moore	
	AW1	2003/0001229 APP	1/2/2003	Moore et al.	
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	BB1	6,072,716	6/2000	Jacobson et al.	
	BC1	5,272,359	12/93	Nagasubramanian et al.	
	BD1	4,671,618	6/87	Wu et al.	
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	BF1	2003/0035314	02/20/03	Kozicki	
	BG1	2003/0035315	02/20/03	Kozicki	
	BH1	6,473,332	04/04/01	Ignatiev et al.	



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				Application Number	10/022,722
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				First Named Inventor	Glen Hush
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				Examiner Name	H. Hoang
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Sheet	3	of	4		

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	BA	JP 56126916	10/1981	Akira et al.		
	BB					

Examiner Signature		Date Considered	
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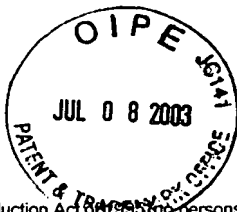
Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	10/193,529		
		Filing Date	July 10, 2002		
		First Named Inventor	Kristy A. Campbell		
		Group Art Unit	2714		
		Examiner Name	H. Weiss		
Sheet	4	of	4	Attorney Docket Number	M4065.0695/P695

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CA	Axon Technologies Corporation, TECHNOLOGY DESCRIPTION: <i>Programmable Metalization Cell(PMC)</i> , pp. 1-6 (Pre-May 2000).	
	CB	Helbert et al., <i>Intralevel hybrid resist process with submicron capability</i> , SPIE Vol. 333 SUBMICRON LITHOGRAPHY, pp. 24-29 (1982).	
	CC	Hilt, DISSERTATION: <i>Materials characterization of Silver Chalcogenide Programmable Metalization Cells</i> , Arizona State University, pp. Title page-114 (UMI Company, May 1999).	
	CD	Hirose et al., <i>High Speed Memory Behavior and Reliability of an Amorphous As₂S₃ Film Doped Ag</i> , PHYS. STAT. SOL. (a) 61, pp. 87-90 (1980).	
	CE	Holmquist et al., <i>Reaction and Diffusion in Silver-Arsenic Chalcogenide Glass Systems</i> , 62 J. AMER. CERAM. SOC., No. 3-4, pp. 183-188 (March-April 1979).	
	CF	Huggett et al., <i>Development of silver sensitized germanium selenide photoresist by reactive sputter etching in SF₆</i> , 42 APPL. PHYS. LETT., No. 7, pp. 592-594 (April 1983).	
	CG	Kawaguchi et al., <i>Mechanism of photosurface deposition</i> , 164-166 J. NON-CRYST. SOLIDS, pp. 1231-1234 (1993).	
	CH	Kolobov and Elliott, <i>Photodoping of Amorphous Chalcogenides by Metals</i> , Advances in Physics, Vol. 40, No 5, 625-684 (1991).	
	CI	Kozicki, et al., "Applications of Programmable Resistance Changes in Metal-doped Chalcogenides", Proceedings of the 1999 Symposium on Solid State Ionic Devices, Editors - E.D. Wachsman et al., The Electrochemical Society, Inc., 1 - 12 (1999).	
	CJ	Kozicki, et al., <i>Nanoscale effects in devices based on chalcogenide solid solutions</i> , Superlattices and Microstructures, 27, 485-488 (2000).	
	CK	Kozicki, et al., <i>Nanoscale phase separation in Ag-Ge-Se glasses</i> , Microelectronic Engineering, vol. 63/1-3, 155-159 (2002).	
	CL	M.N. Kozicki and M. Mitkova, <i>Silver incorporation in thin films of selenium rich Ge-Se glasses</i> , Proceedings of the XIX International Congress on Glass, Society for Glass Technology, 226-227 (2001).	
	CM	McHardy et al., <i>The dissolution of metals in amorphous chalcogenides and the effects of electron and ultraviolet radiation</i> , 20 J. PHYS. C.: SOLID STATE PHYS., pp. 4055-4075 (1987)f	
	CN	Owen et al., <i>Metal-Chalcogenide Photoresists for High Resolution Lithography and Sub-Micron Structures</i> , NANOSTRUCTURE PHYSICS AND FABRICATION, pp. 447-451 (M. Reed ed. 1989).	
	CO	Shimizu et al., <i>The Photo-Erasable Memory Switching Effect of Ag Photo-Doped Chalcogenide Glasses</i> , 46 B. CHEM SOC. JAPAN, No. 12, pp. 3662-3365 (1973).	
	CP		
	CQ		

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	AA	5,761,112	06/02/1998	Murray et al.	
	AB	US 2001/0012214 A1	09/09/2001	Akita et al.	

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	BC	WO 01/45108 A1	06/21/2001			
	BD	EP 0 274 828	07/20/1988			

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Documents Filed:

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PTO SB/08 (1 page) with references

Via: PTO Daily Run

Sender's Initials: TJD/CSC/cdl

Date: May 23, 2003

LMS



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Transmittal (1 page)

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